- a) reaction of a rapamycin having an activated coupling group with an immunogenic protein to produce an immunogenic conjugate;
- b) administration of said immunogenic conjugate to an appropriate animal species to effect immunogenic challenge and recovery of antibody-producing cells sensitized to said conjugate;
- c) immortalization of said antibody-producing cells; and
- d) recovery of monoclonal antibody from a selected immortalized cell line thus established.
- 19. (new) A monoclonal antibody of claim 15 wherein the rapamycin is (i) rapamycin; or (ii) a 40-O-alkylated rapamycin.
- 20. (new) A monoclonal antibody of claim 19 wherein the rapamycin is rapamycin.
- 21. (new) A monoclonal antibody of claim 19, wherein the 40-O-alkyl substituent is hydroxyalkyl, hydroxyalkoxyalkyl, acylaminoalkyl, or aminoalkyl.
- 22. (new) A monoclonal antibody of claim 21 wherein the rapamycin is
 - i) 40-O-(2-hydroxyethyl)-tapamycin,
 - ii) 40-O-(3-hydroxyproply)-tapamycin,
 - iii) 40-O-[2-(2-hydroxy)ethoxy]ethyl-rapamycin, or
 - iv) 40-O-(2-acetaminoethyl)-rapamycin).
- 23. (new) A monoclonal antibody of claim 22, wherein the rapamycin is 40-O-(2-hydroxyethyl)-rapamycin.
- 24. (new) A monoclonal antibody of claim 15 which distinguishes between (i) rapamycin and (ii) a 40-O-alkylated rapamycin.
- 25. (new) A monoclonal antibody of claim 24 wherein the 40-O-alkyl substituent is hydroxyalkyl, hydroxyalkoxyalkyl, acylaminoalkyl, or aminoalkyl
- 26. (new) A hybridoma cell line which produces a monoclonal antibody of claim 15.
- 27. (new) An immunoassay kit for measuring the blood level of a rapamycin, comprising a monoclonal antibody of claim 15.

